

## EAST Search History

| Ref # | Hits | Search Query      | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|-------------------|--|------------------|---------|------------------|
| S1    | 6    | "6606344"         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/05/08 09:45 |
| S2    | 12   | "6337875"         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/05/08 09:45 |
| S3    | 17   | "6026117"         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/05/08 09:46 |
| S4    | 19   | "3535452"         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/05/08 09:47 |
| S5    | 19   | "4158193"         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/05/08 09:49 |
| S6    | 16   | "4210879"         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2007/05/10 11:48 |
| S7    | 0    | ("6731671").URPN. | USPAT  | OR               | OFF     | 2007/05/08 13:17 |
| S8    | 0    | ("6731671").URPN. | USPAT  | OR               | OFF     | 2007/05/08 13:17 |

## EAST Search History

|     |    |   |  |    |     |                  |
|-----|----|---|--|----|-----|------------------|
| S9  | 21 | ("3535452"   "3648238"   "4158193"   "4210879"   "4755969"   "5187676"   "5218559"   "5233629"   "5309474"   "5361047"   "5369374"   "5373532"   "5408628"   "5467294"   "5488629"   "5497395"   "5532695"   "5640416"   "5956328"   "6201835").PN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/08 13:20 |
| S10 | 9  | "3648238"   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/08 13:20 |
| S11 | 16 | ("2512038"   "3051784"   "3216004"   "3314075"   "3335409"   "3365706"   "3411135"   "3471830").PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/08 13:25 |
| S12 | 8  | ("3648238").URPN.   | USPAT  | OR | OFF | 2007/05/08 13:28 |
| S13 | 14 | "5218559"   | USPAT  | OR | OFF | 2007/05/08 13:28 |
| S14 | 14 | ("3790768"   "4270430"   "4327419"   "4355366"   "4545024"   "4694412"   "4791594"   "4810975"   "4855690"   "5007087"   "5218559"   "5627775"   "5706218"   "6195669").PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/08 13:31 |
| S15 | 1  | ("6374278").URPN.   | USPAT  | OR | OFF | 2007/05/08 13:35 |
| S16 | 82 | "5233629"   | USPAT  | OR | OFF | 2007/05/08 13:35 |
| S17 | 0  | ("6606344").URPN.   | USPAT  | OR | OFF | 2007/05/08 13:38 |
| S18 | 20 | ("3535452"   "4158193"   "4210879"   "4755969"   "5187676"   "5218559"   "5233629"   "5309474"   "5361047"   "5369374"   "5373532"   "5408628"   "5467294"   "5488629"   "5497395"   "5532695"   "5640416"   "5956328"   "6201835").PN.             | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/08 13:43 |
| S19 | 14 | "6201835"   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/08 13:44 |
| S20 | 3  | "6614833"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/08 14:43 |
| S21 | 15 | "6201835"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/08 14:43 |

## EAST Search History

|     |         |   |  |    |     |                  |
|-----|---------|---|--|----|-----|------------------|
| S22 | 48      | "5353302"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/09 14:05 |
| S23 | 962     | 375/147.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/09 14:05 |
| S24 | 4114238 | 375/147.ccls.or "236" or "200" or "209" or "120"      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/10 12:48 |
| S25 | 124308  | pseudo-random adj code adj sequences or PN            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/09 14:07 |
| S26 | 19347   | quadrature with phase with shift near1 key\$3 or QPSK | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/09 14:09 |
| S27 | 2038    | I with value near1 Q with value                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/09 14:10 |
| S28 | 229     | S26 and S27   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/09 14:11 |

## EAST Search History

|     |    |  |  |    |     |                  |
|-----|----|--|--|----|-----|------------------|
| S29 | 40 | S25 and S28  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/09 14:11 |
| S30 | 32 | S29 and S24  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/09 14:11 |
| S31 | 3  | ("6052404").URPN.                                      | USPAT  | OR | OFF | 2007/05/09 14:23 |
| S32 | 0  | ("6999500").URPN.                                      | USPAT  | OR | OFF | 2007/05/09 14:32 |
| S33 | 0  | ("6999500").URPN.                                      | USPAT  | OR | OFF | 2007/05/09 14:32 |
| S34 | 4  | ("5712869"   "5940434"   "6052404"  <br>"6377539").PN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/09 14:45 |
| S35 | 0  | mult-bit with number with parameter<br>same prime      | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/09 14:46 |
| S36 | 0  | mult-bit with number with parameter                    | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/09 14:46 |
| S37 | 1  | multi-bit with number with parameter<br>same prime     | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/09 14:46 |
| S38 | 1  | multi-bit with number with parameter<br>with prime     | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/09 14:46 |
| S39 | 12 | multi-bit with number same I near2 Q                   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/09 16:00 |
| S40 | 27 | "4039749"  | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/09 14:54 |
| S42 | 1  | "7116698"  | USPAT  | OR | OFF | 2007/05/09 17:21 |
| S43 | 0  | ("7116698").URPN.                                      | USPAT  | OR | OFF | 2007/05/09 17:28 |
| S44 | 3  | ("5790591"   "5815526"   "6452959").<br>PN.            | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/09 17:28 |

## EAST Search History

|     |       |   |  |    |     |                  |
|-----|-------|---|--|----|-----|------------------|
| S45 | 15    | "6201835"                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/10 12:25 |
| S46 | 18    | "739983"                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/10 12:27 |
| S47 | 9     | "5903555"                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/10 12:27 |
| S48 | 17    | "5235613"                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/10 13:26 |
| S49 | 8     | "6215813"                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/10 13:37 |
| S50 | 8     | "6584090"                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/10 13:43 |
| S51 | 47497 | mapp\$4 with sequence or binary with sequence | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/10 13:44 |

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|     |        |   |  |    |     |                  |
|-----|--------|---|--|----|-----|------------------|
| S52 | 513147 | I-phase with Q-phase or I with Q  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/10 13:45 |
| S53 | 5532   | S51 and S52   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/10 13:45 |
| S54 | 174    | S51 with S52  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/10 13:46 |
| S55 | 56     | S51 with S52 and QPSK   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/10 13:47 |
| S56 | 16     | ("5621761").URPN.   | USPAT  | OR | OFF | 2007/05/10 14:53 |
| S57 | 405    | 375/281   | USPAT  | OR | OFF | 2007/05/10 14:53 |
| S58 | 138    | 375/281.ccls.   | USPAT  | OR | OFF | 2007/05/11 09:34 |
| S59 | 3      | ("6973141").URPN.   | USPAT  | OR | OFF | 2007/05/10 15:03 |
| S60 | 11     | ("20010050926"   "20020138807"  <br>"20040083254"   "20040152418"  <br>"5128964"   "5675611"   "5694433"  <br>"5943372"   "6157593"   "6343217"  <br>"6973141").PN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/10 15:04 |
| S61 | 3      | ("5369378"   "5528631"   "5604770").<br>PN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | OFF | 2007/05/10 15:18 |
| S62 | 5      | ("5604770").URPN.   | USPAT  | OR | OFF | 2007/05/10 15:26 |
| S63 | 2      | "20050002443"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/10 15:31 |
| S64 | 284008 | 375/281.ccls.or "279" or "308"  | USPAT  | OR | OFF | 2007/05/10 16:37 |

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|     |         |  |  |    |     |                  |
|-----|---------|--|--|----|-----|------------------|
| S65 | 526     | 375/308.ccls.  | USPAT  | OR | OFF | 2007/05/10 17:15 |
| S66 | 211     | 375/279.ccls.  | USPAT  | OR | OFF | 2007/05/10 17:09 |
| S67 | 138     | 375/281.ccls.  | USPAT  | OR | OFF | 2007/05/10 17:16 |
| S68 | 68      | 375/281.ccls.and QPSK  | USPAT  | OR | OFF | 2007/05/10 17:16 |
| S69 | 45      | 375/281.ccls.and QPSK and I with Q                                   | USPAT  | OR | OFF | 2007/05/10 17:26 |
| S70 | 42      | "5956328"  | USPAT  | OR | OFF | 2007/05/10 17:28 |
| S71 | 91      | "5640416"  | USPAT  | OR | OFF | 2007/05/10 17:30 |
| S72 | 42      | "5532695"  | USPAT  | OR | OFF | 2007/05/10 17:35 |
| S73 | 36      | "5497395"  | USPAT  | OR | OFF | 2007/05/10 17:36 |
| S74 | 80      | "5488629"  | USPAT  | OR | OFF | 2007/05/10 17:37 |
| S75 | 14      | "5373532"  | USPAT  | OR | OFF | 2007/05/10 17:38 |
| S76 | 10      | "5369374"  | USPAT  | OR | OFF | 2007/05/10 17:39 |
| S77 | 12      | "5361047"  | USPAT  | OR | OFF | 2007/05/10 17:40 |
| S78 | 12      | "5825887"  | USPAT  | OR | OFF | 2007/05/11 09:08 |
| S79 | 8       | "5129066"  | USPAT  | OR | OFF | 2007/05/11 09:08 |
| S80 | 1130246 | 375/281.ccls. "200" 455/522 364/717.<br>01 "717"/.03 370/342 327/164 | USPAT  | OR | OFF | 2007/05/11 09:38 |
| S81 | 2374556 | 375/261 "298" "281" "270" "308"<br>332/103 "104"                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/11 09:40 |
| S82 | 893     | 375/261.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/11 09:45 |
| S83 | 0       | 375/261.ccls.with QPSK   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/11 09:45 |
| S84 | 253     | 375/261.ccls.and QPSK  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/11 10:49 |

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|     |     |                           |  |    |    |                  |
|-----|-----|---------------------------|--|----|----|------------------|
| S85 | 47  | "5909460"                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/11 10:08 |
| S86 | 19  | "4158193"                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/11 10:11 |
| S87 | 16  | "4210879"                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/11 10:12 |
| S88 | 233 | 375/298.ccls.and QPSK     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/11 11:24 |
| S89 | 5   | "6052404"                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/11 11:38 |
| S90 | 216 | 375/270.ccls.             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/11 11:38 |
| S91 | 28  | 375/290.ccls. and I and Q | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/11 11:41 |



## EAST Search History

|     |       |                                       |  |    |     |                  |
|-----|-------|---------------------------------------|--|----|-----|------------------|
| S92 | 4     | 375/290.ccls. and QPSK                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/11 11:42 |
| S93 | 157   | 375/290.ccls.                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/11 11:47 |
| S94 | 195   | 375/281.ccls.                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/11 12:03 |
| S95 | 2     | "7095290"                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/11 12:05 |
| S96 | 392   | multi with bit same I with Q          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/11 12:07 |
| S97 | 140   | multi with bit same I with Q and QPSK | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/11 12:20 |
| S98 | 29081 | QPSK or PSK or QAM and I and Q        | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/11 12:21 |
| S99 | 18    | "5408628"                             | USPAT  | OR | OFF | 2007/05/11 13:55 |